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Carriage Height Calibration

The purpose of this Service Calibration is to adjust the distance between the Carriage Assembly and the Center Platen. This calibration is necessary in order to prevent problems like Printhead crashes.

Perform the Carriage Height Calibration whenever:

- Carriage is disassembled or replaced.
- Center Platen is disassembled or replaced.
- Continuous Printhead Crashes.

Perform the Carriage Height Calibration as follows:

NOTE **The procedure should be carried out using the Carriage Height Tool (See Figure 1 below) that came with the new Carriage Assembly or Center Platen Assembly.**

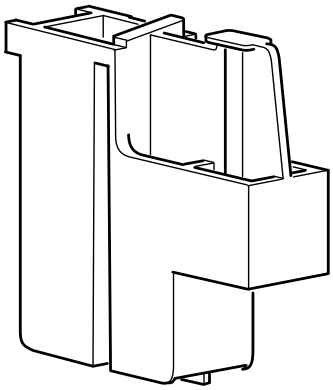
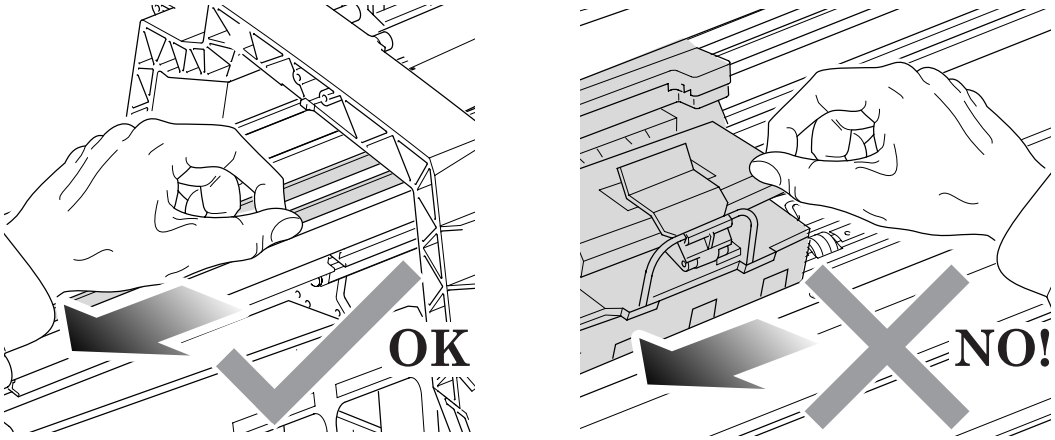


Figure 1

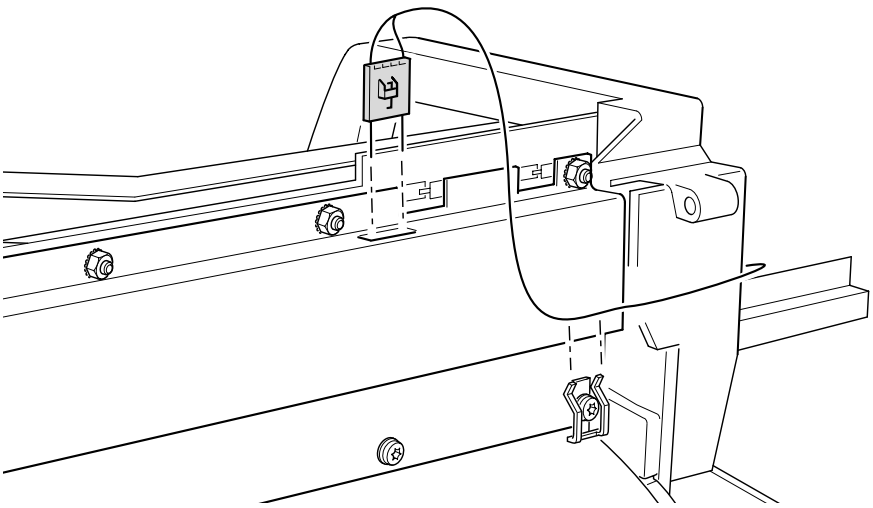
NOTE **During the Carriage Height Calibration procedure the Carriage Assembly has to be moved along the length of the printer for correct calibration. Make sure that the Carriage Assembly is only ever moved by pulling the belt and never by direct contact with the carriage itself (See Figure 2 below).**



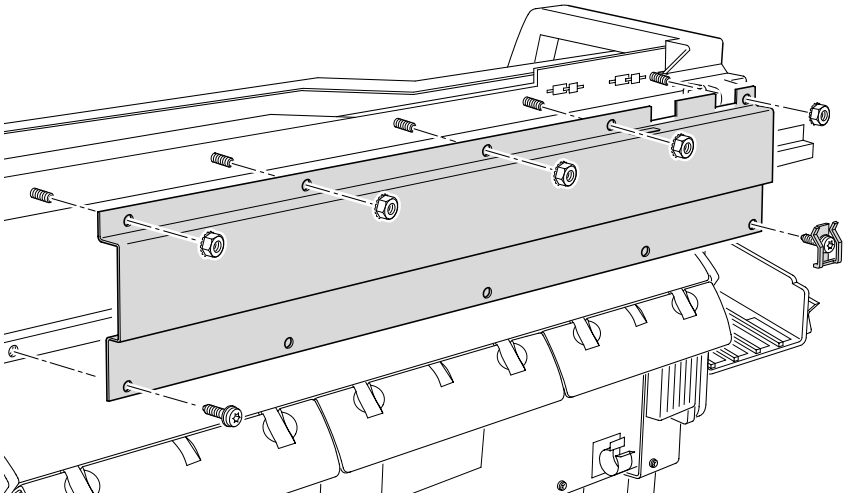
Correct: move using the belt. **Incorrect:** never move using Carriage Assembly.

Figure 2

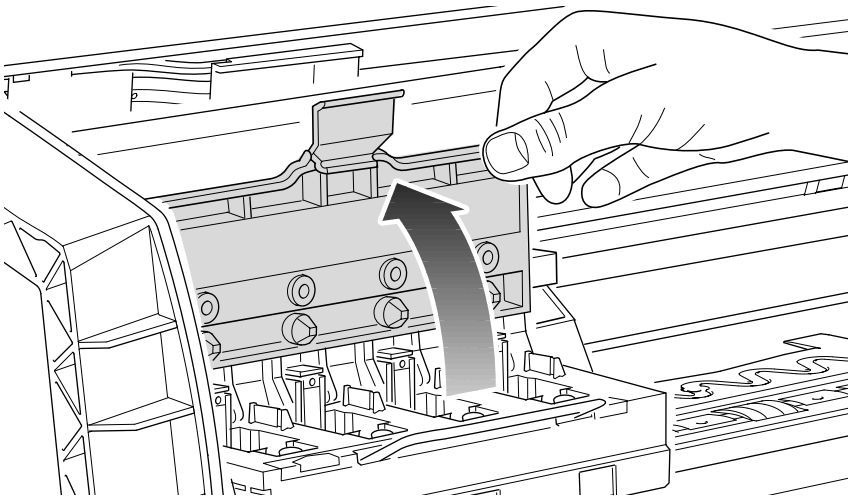
1 Disconnect the Ink Leak Detector Cable Connector from the back of the printer.



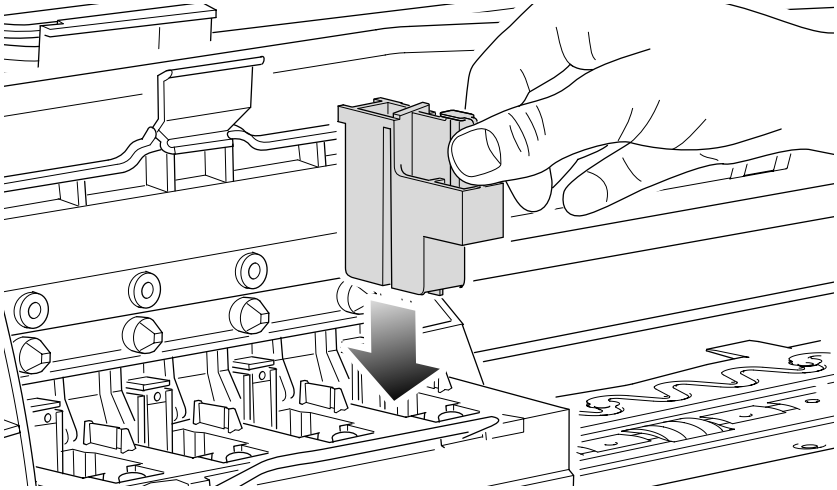
2 Remove the EMC Cover on the left hand side of the printing area.



3 Open the Carriage Cover on the left hand side of the printing area.

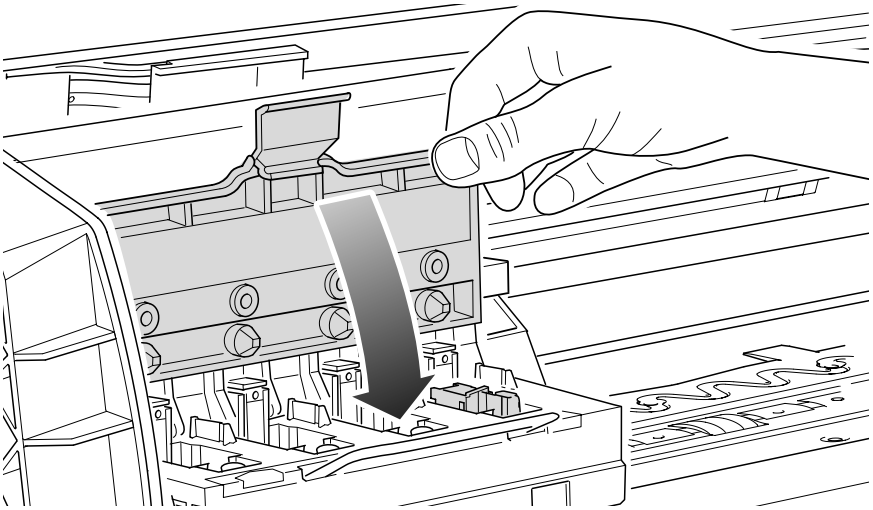


4 Insert the Carriage Height Tool into the black cartridge slot.



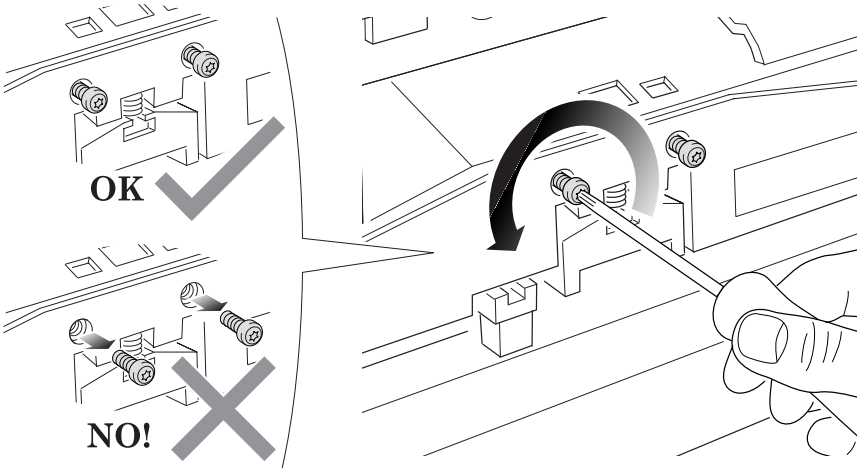
5 Close the Carriage Cover

.

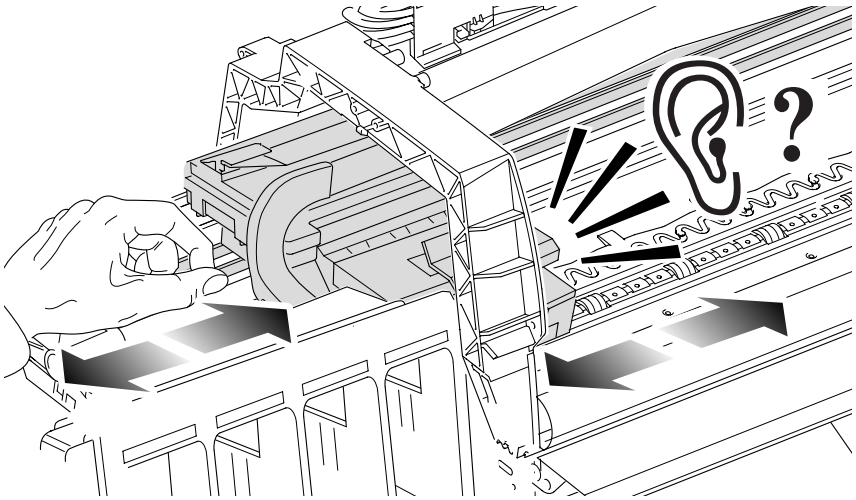


6 **Loosen** the two T10 screws at the back of the Carriage Assembly.

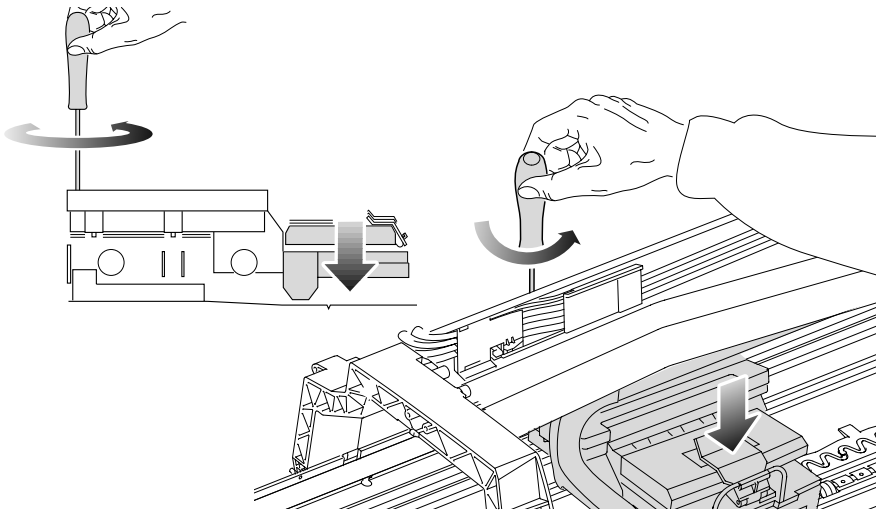
NOTE **NOTE: The screws should not be removed.**



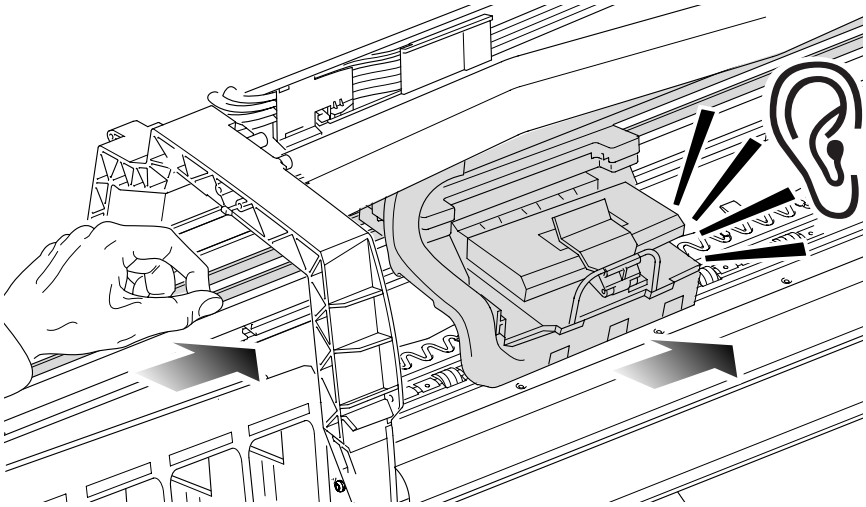
7 Using the belt, and beginning to the left hand side of the starting position (where the left hand edge of the paper is positioned when printing), move the Carriage Assembly back and forth along the length of the printer, **you are listening for a scraping sound**: if you hear a sound already you may proceed directly with step 9, if not you must lower the Carriage Assembly (step 8), and try again until a scraping sound is heard.



8 Lower the Carriage Assembly slightly, by turning the T9 screw shown below anti-clockwise and then check for a scraping sound again as shown previously in step 7.

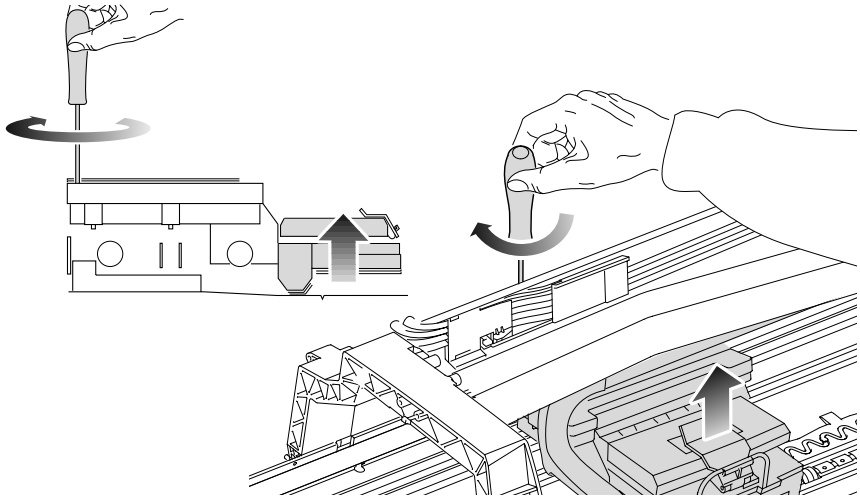


9 On moving the Carriage Assembly along the length of the printer you should now hear a scraping sound: this sound indicates that you need to raise the Carriage Assembly (if there is no sound repeat step 8).

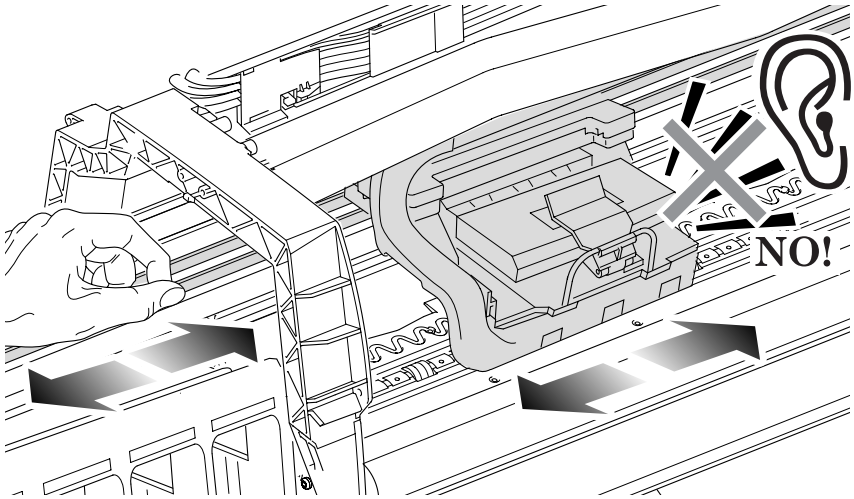


10 Raise the Carriage Assembly slightly, by turning the T9 screw (shown below) clockwise

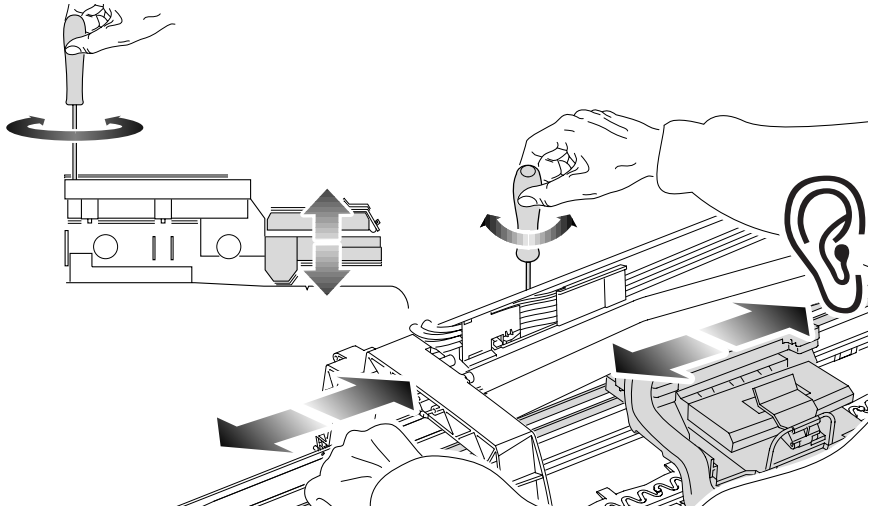
.



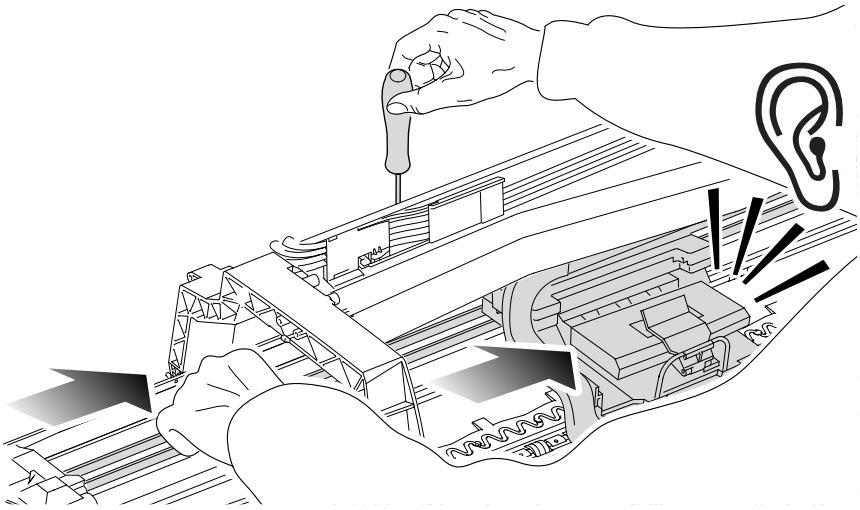
11 Check that there is no longer a scraping sound.



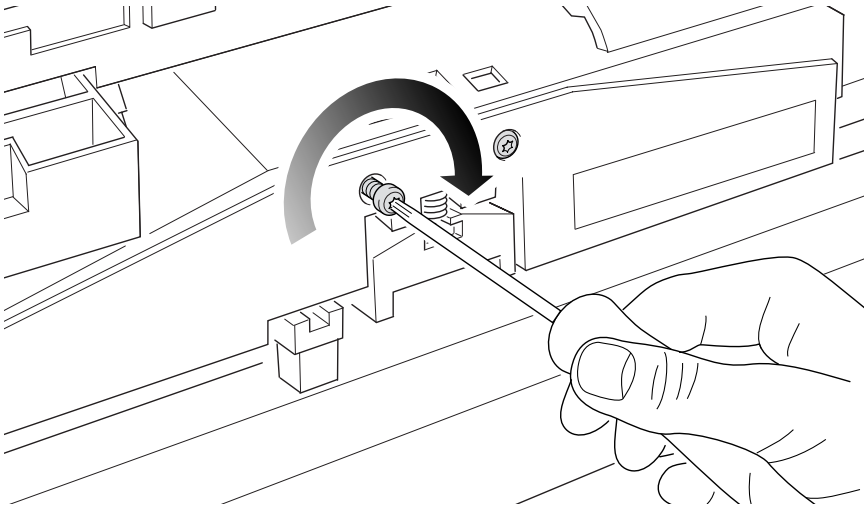
12 When the scraping has been eliminated it is important to leave the Carriage Assembly as close as possible to the Center Platen: move the Carriage Assembly back and forth across the area where the scraping sound was, gently lowering and raising the Carriage Assembly until you are sure that it is as close as it possibly can be to the Center Platen without touching.



13 Continue checking the full length of the printer until you arrive at the blue line used to load the cut sheet paper, repeating steps 10, 11 and 12 whenever a scraping sound is heard.



14 When the complete length of the printer is calibrated (clear of any scraping sound), tighten the two T10 screws at the back of the Carriage Assembly to secure the current position.



15 Remove the Carriage Height Tool.